Bad Visualisations: Exercises

Introductions into the exercises and packages needed to be installed.

In order to complete all these exercises, I have preloaded all the libraries we will use. There is also a refernce guide to help you use ggplot2 and other R visualisation libraries with ease.

Exercise One: Bar Charts

How to remove Highlighting and Axis Scaling

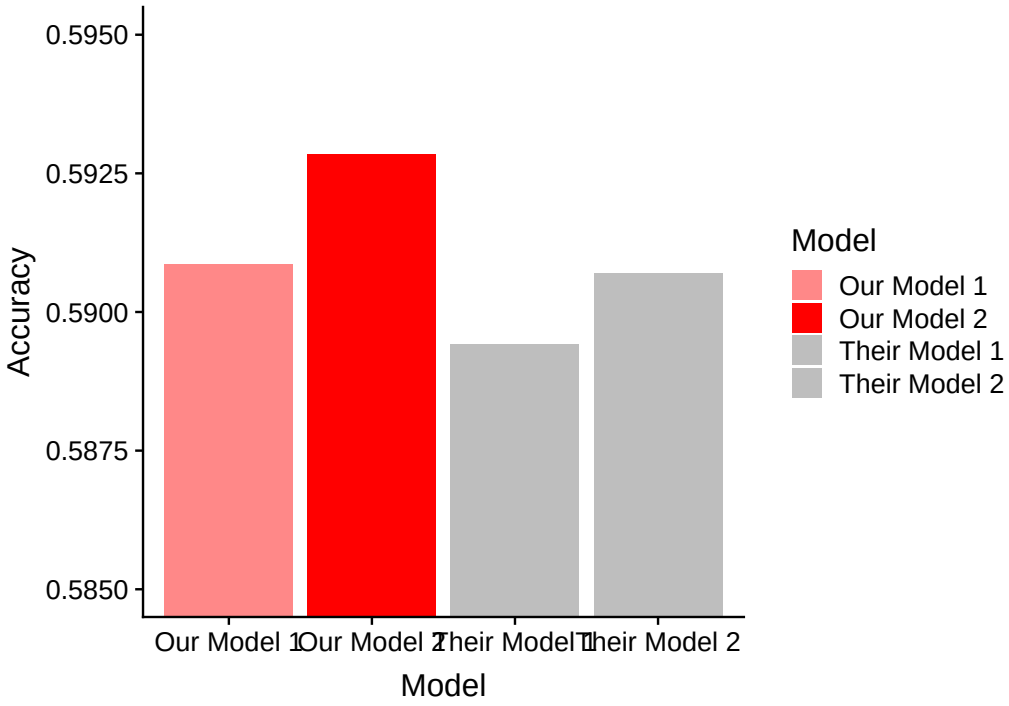
Bar graphs are perhaps the most commonly used kind of data visualization. They're typically used to display numeric values (on the y-axis), for different categories (on the x-axis).

As an initial visualisation exercise, you need to create a good visualisation from the given bad visualisation. The data being used is stored in a dataframe `ExerciseOne`.

```
##           Model Accuracy
## 1 Their Model 1 0.589415
## 2 Their Model 2 0.590705
## 3   Our Model 1 0.590867
## 4   Our Model 2 0.592849
```

The initial bad visualisation is the same as you can see on the "Highlighting and Scale" page of the shiny app.

```
ggplot(data = ExerciseOne, aes(x = Model, y = Accuracy, fill = Model)) + geom_bar(stat ="identity") +
      coord_cartesian(ylim = c(0.585, 0.595)) +
scale_fill_manual(values = c("#FF8888", "#FF0000", "Gray", "Gray"))
```



Your task is to update the ggplot2 code for the bar graph to remove the two misleading factor in thie visualisation:

- Fix the colour scheme so that no highlight occurs. *Note: you do not need to choose the same colour scheme as the example, just ensure the colour scheme is neutral.*

You can specify the colours in a few different ways. One is using the

- Remove the axis scaling to make the winner appear clearer.

Refer to the **Cheat Sheet** to help you make these changes.

Open the notebook in RStudio and replace the dashes with the correct answer

```
# ggplot(data = ExerciseOne, aes(x = Model, y = Accuracy, fill = Model)) + geom_bar(stat ="identity")
#       coord_cartesian(ylim = c(---, ---)) +
# scale_fill_manual(values = c(---, ---, ---, ---))
```

If your rendered plot looks similar to the plot below, you have successfully created a good visualisation from a bad.

```
ggplot(data = ExerciseOne, aes(x = Model, y = Accuracy, fill = Model)) + geom_bar(stat ="identity") +
```